Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-05-24** **Date: 18-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads at MIG 3rd Phase in Ward No.04.
Agency	:	Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/52/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-05-24** **Date: 22-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads at MIG 3rd Phase in Ward No.04.
Agency	:	Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W O/52/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.09	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-05-24** **Date: 06/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads at MIG 3rd Phase in Ward No.04.
Agency	:	Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/52/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	150.32 X 149.47 X 150.36	22468	8.252	581.2	25.9	25.6
2	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	151.41 X 151.58 X 150.32	22951	8.352	610.4	26.6	
3	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	151.76 X 151.87 X 150.73	23048	8.523	563.6	24.5	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-05-24** **Date: 27/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads at MIG 3rd Phase in Ward No.04.
Agency	:	Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/52/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/06/2019	27/07/2019	151.08 X 150.50 X 151.23	22738	8.900	768.8	33.8	33.3
2	Cement Concrete Pavement	M30	29/06/2019	27/07/2019	150.45 X 149.02 X 149.72	22421	8.089	737.2	32.9	
3	Cement Concrete Pavement	M30	29/06/2019	27/07/2019	149.64 X 150.64 X 149.32	22542	8.784	751.2	33.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-05-24** **Date: 06/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads at MIG 3rd Phase in Ward No.04.
Agency	:	Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/52/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	149.63 X 151.01 X 149.12	22595	8.252	578.5	25.6	25.7
2	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	150.74 X 149.89 X 150.90	22595	8.352	600.2	26.6	
3	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	149.79 X 150.03 X 151.45	22473	8.523	560.2	24.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-05-24 Date: 06/07/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads at MIG 3rd Phase in Ward No.04.

Agency : Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-21/W.O/52/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	150.97 X 149.26 X 150.39	22534	8.252	571.3	25.4	25.5
2	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	150.86 X 150.30 X 151.16	22674	8.352	596.8	26.3	
3	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	150.33 X 151.74 X 150.36	22811	8.523	567.1	24.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2019

Lab ID	:	CP-2019-08-05-24
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads at MIG 3rd Phase in Ward No.04.
Agency	:	Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/52/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	151.03 X 149.58 X 150.94	22591	8.252	571.6	25.3	25.2
2	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	151.20 X 151.10 X 150.83	22846	8.352	595.0	26.0	
3	Cement Concrete Pavement	M30	29/06/2019	06/07/2019	150.50 X 149.41 X 149.09	22486	8.523	542.5	24.1	

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-05-24** **Date: 22-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads at MIG 3rd Phase in Ward No.04.
Agency	:	Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/52/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-06-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	188	188	1.3	98.7	90-100
3	20 mm	7285	7473	49.8	50.2	30-70
4	10 mm	4088	11561	77.1	22.9	10-35
5	4.75 mm	3002	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-05-24** **Date: 21-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads at MIG 3rd Phase in Ward No.04.
Agency	:	Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-21/W.O/52/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-08-05-24 **Date: 21-06-19**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads at MIG 3rd Phase in Ward No.04.

Agency : Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-21/W.O/52/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-06-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-06-19

Total weight taken : 1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-08-05-24

Date: 21-06-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO Sig Date BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿಯವರು ಅಧಿಸೂಚಿತರು
ಪುರಸಭೆ ಉಪನಗರ ಬಿಬಿಎಂಪಿ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-08-05-24

Date: 28-06-19

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads at MIG 3rd Phase in Ward No.04.

Agency : Sri.Thilakkumar.H.S, No.76/1, 17th Main Road, J.C.R.Nagar, Geleyara Balaga, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-21/W.O/52/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-06-19

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 24/06/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10೬

FOR CIVIL Pro.

CIVIL Pro BANGALORE Sig..... Date.....

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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